

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"6350685".pn. and (copper or cu or alcu or cual or alloy)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/11 07:49
L2	1	1 and (polish\$ or planar\$ or cmp)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/11 07:55
L3	1	"6429493".pn. and (polish\$ or planar\$ or cmp)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/11 07:53
L4	723527	copper or cu or cual	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/11 07:53
L5	24035	4 with (cvd or vapor or vapour or ald or atomic)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/11 07:54
L6	8527	5 and (polish\$ or planar\$ or cmp)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/11 07:55
L7	2403	5 same (polish\$ or planar\$ or cmp)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/11 07:55
L8	942	7 and @ad<"20010821"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 07:56
L9	687	8 and barrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 08:03
L10	3332	5 with (sputter\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 08:03
L11	294	10 and 8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 08:04

## EAST Search History

L12	230	11 and barrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 08:04
L13	2000464	iridium or ir or ruthenium or ru or rh or rhenium	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 08:07
L14	31	11 and 13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 08:46
L15	2	"6181012".pn. and seed	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 08:46
L16	2	"6181012".pn. and seed	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 08:47
S1	1995688	iridium or ir or ruthenium or ru or rh or rhenium	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 08:07
S2	1688150	copper or cu or cual or alcu	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 14:49
S3	786461	S1 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 14:51

## EAST Search History

S4	8327503	opening or via or hole or aperture or viahole	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 14:51
S5	70260	S4 with S1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 14:51
S6	70815	S2 with S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 14:52
S7	1906	S5 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 14:53
S8	477	S7 and @ad<"20010821"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 12:54
S9	47	rusio or "rusi.sub.xo.sub.y" or "rusi.sub.x o.sub.y" or "rusio.sub.2" or rusio2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 15:15
S10	44	S4 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 15:15
S11	613	rusin or "rusi.sub.xn.sub.y" or "rusi.sub.x n.sub.y" or "rusi.sub.3n.sub.4" or "rusi.sub.3 n.sub.4" or rusi3n4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 15:16

## EAST Search History

S12	241	S11 and S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 15:16
S13	111	(S10 or S12) and @ad<"20010821"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 07:55
S14	29	S13 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 07:04
S15	14	"6242764"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 07:27
S16	5	((("6573172") or ("20040075148") or ("20050059228") or ("20040097030") or ("6348389")). PN.	US-PGPUB; USPAT	OR	OFF	2006/04/07 10:07
S17	1	("20050059228").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/07 10:19
S18	2390665	S16 and stress or (tensile or compress\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 10:20
S19	5	S16 and (stress or tensile or compress\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 11:10
S20	1	"5,874,747".pn. and lattice	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 11:38

## EAST Search History

S21	2	"6242764".pn. and lattice	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 12:06
S22	1	("6461909").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/07 12:11
S23	1	S22 and (copper or cu)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 12:18
S24	1	10/687186	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 12:30
S25	1	S23 and (thick\$4 or angstrom)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 12:47
S26	1	S23 and (cmp or polish\$4 or planar\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 12:48
S27	27	ruthenium adj1 silicon adj1 oxide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 12:51
S28	12778	ruthenium and precursor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:34
S29	2679	S28 and semiconductor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 12:52

## EAST Search History

S32	7087729	plug or opening or viahole or hole or aperture or interconnect\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 12:53
S33	73392	S32 with (cu or copper or cual or alcu)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 12:53
S34	262	S29 and S33	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 12:54
S35	76	S34 and @ad<"20010821"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:27
S36	3	"6713373".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:21
S37	2	"20050124154".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:21
S38	1996078	iridium or ir or ruthenium or ru or rh or rhenium	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 13:33
S39	1470441	tin or indium or sn or zinc or zn or chromium	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 13:52

## EAST Search History

S40	1688780	copper or cu cual or alcu	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 13:26
S41	911128	cvd or vapor or mocvd	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:34
S42	10634	S38 with S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:28
S43	33067	S39 with S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:27
S44	23316	S40 with S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:27
S45	359	S42 and S43 and S44	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:27
S46	163	S45 and @ad<"20010821"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:35
S47	69	S32 and S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:28

## EAST Search History

S48	72609	S32 with S40	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:29
S49	60836	S32 with S39	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:29
S50	68380	S32 with S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:29
S51	11	S46 and S48 and S49 and S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:33
S52	68380	S38 with S32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 13:33
S53	3436	S38 with precursor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:34
S54	72609	S40 with S32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:34
S55	60	S52 and S53 and S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:36



## EAST Search History

S56	7	S55 and @ad<"20010821"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:49
S57	58	S42 and S53 and S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:37
S58	15	S57 and @ad<"20010821"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:53
S59	15760	S38 with (barrier or diffus\$4 or adhesi\$4 or liner)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:04
S60	44244	S38 with (precursor or gas or S41)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:10
S61	2493	S59 and S60	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 13:51
S62	2247915	S39 or cr	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 14:08
S63	72609	S32 with S40	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 13:52

## EAST Search History

S64	232	S61 and S63	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 13:53
S65	63	S64 and @ad<"20010821"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:05
S66	57	S65 and S62	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:04
S67	87349	ruo or iro or rho	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:07
S68	1023	S67 with (barrier or diffus\$4 or adhesi\$4 or liner)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:04
S69	5	S68 and S61 and S62 and @ad<"20010821"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:09
S70	2052246	S38 or S67	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:07
S71	935318	S62 and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 14:32

## EAST Search History

S72	6182	S33 and S71	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 14:09
S73	1639	S72 and @ad<"20010821"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:32
S74	46093	(S67 or S38) with (precursor or gas or S41)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:10
S75	153	S73 and S74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:32
S76	1	"5719083".pn. and (copper or cu or cual or alcu)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:25
S77	10511	S33 and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 14:32
S78	736	S77 and S74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:32
S79	191	S78 and @ad<"20010821"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:51

## EAST Search History

S80	38	S79 not S75	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:33
S81	23	(US-20020084529-\$ or US-20020036309-\$ or US-20020020627-\$ or US-20010022398-\$ or US-20020132374-\$ or US-20020028556-\$ or US-20020072223-\$ or US-20020006468-\$).did. or (US-6977224-\$ or US-6632335-\$ or US-6548844-\$ or US-6461909-\$ or US-6903005-\$ or US-6566147-\$ or US-6462367-\$ or US-6320213-\$ or US-6441492-\$ or US-6265779-\$ or US-6011284-\$ or US-6365502-\$ or US-6455938-\$ or US-5907789-\$). did. or (JP-2001110809-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/07 14:40
S82	2	"20020004293".pn.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/07 14:48
S83	707847	S70 and S40	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/07 14:49
S84	0	438/618-688	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/07 14:50
S85	17504	(438/618-688).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/04/07 14:50
S86	405	S83 and S85 and @ad<"20010821"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 14:52
S87	382	S86 not (S79 or S75 or S66)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 15:46
S88	0	"6429493".pn. and (S39 or cr)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 15:54

## EAST Search History

S89	126	("20010035237" "20020036309" "20020039542" "20020053741" "20020076925" "20020084529" "20020102838" "20020109233" "20020137332" "20040105934" "20040192021" "20050124154" "5004520" "5224520" "5243222" "5300462" "5552341" "5654245" "5770517" "5821168" "5882738" "5899740" "5969422" "6015749" "6030895" "6037001" "6069068" "6090701" "6090710" "6096648" "6117770" "6130156" "6156638" "6180522" "6225221" "6242808" "6268291" "6294463" "6294836" "6297146" "6344413" "6365502" "6399496" "6410383" "6420262" "6423289" "6423633" "6426289" "6440849" "6461675" "6465867" "6482734" "6482740" "6500749" "6521532" "6534865" "6589874" "6605874" "6703307" "6706626" "6713373" "6790773").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 15:54
S90	0	("2005/0124154").URPN.	USPAT	OR	OFF	2006/04/07 15:55
S91	15	("20020036309"   "20020064592"   "4976996"   "5770469"   "5916365"   "5939746"   "6107136"   "6335241"   "6365502"   "6368910"   "6432779"   "6433379"   "6464779"   "6472322"   "6482740").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/07 16:03
S92	0	S69 and S89	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/07 16:04
S93	27	S70 and S89	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/07 16:04
S94	55162	S63 and S40	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/07 16:05
S95	26	S93 and S40	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/11 06:52